

PATENT ABSTRACTS OF JAPAN

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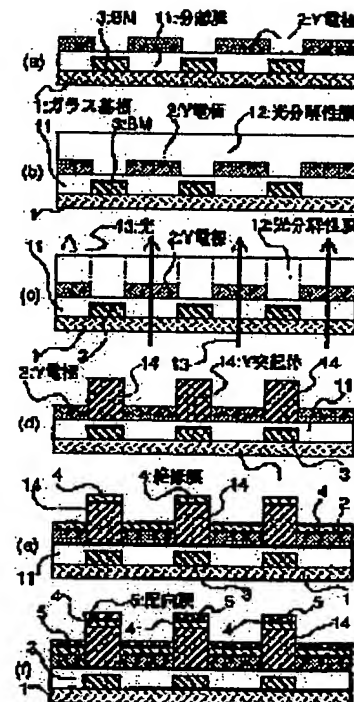
(71)Applicant : SANYO ELECTRIC CO LTD
(72)Inventor : OKITA YUJI
TAMAOKA EIJI
INOUE KAZUHIRO

(54) PRODUCTION OF LIQUID CRYSTAL DISPLAY CELL

(57)Abstract:

PURPOSE: To improve the accuracy of inter-cell spacing control and single orientability, to prevent the degradation in an opening rate by deviation of patterns and to improve the resistance to mechanical impact from outside after the completion of a panel by forming projecting bodies only in the specific direction on a black matrix of a substrate by using an anisotropic rear surface exposing method using a photodecomposable resin and linear light.

CONSTITUTION: A photodecomposable film 12 is formed above the substrate 1 having island-shaped pixels packed flatly in a grid-shaped black matrix (BM) 3. This photodecomposable film 12 is anisotropically exposed by the linear light 13 varying in the progressing direction of the light by directions through the light transmissive island-shaped pixels existing in the spacings of the light shieldable grid-shaped BM 3 from the substrate 1 side. This exposed photodecomposable film 12 is developed to form the projecting bodies 14 in one direction above the BM 3. Next, an inorg. insulating film 4 is formed over the entire surface of the substrate 1 including the projecting bodies 14 and further an org. oriented film 5 is formed on this inorg. insulating film 4.



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